

obtained by deacetylating chitin as the natural polymer contained in the carapace of the crab or lobster, Ag^(sup +), Cu^(sup 2+) and Zn^(sup 2+) are traditionally known as the antibacterial metal ion of the bead, and the compound is practically used as an antibacterial plastic.

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03439413
CONTACT LENS

PUB. NO.:

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INVENTOR(s): KANBE SADAO

APPLICANT(s): SEIKO EPSON CORP [000236] (A Japanese Company or Corporation)

, JP (Japan)

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JAPIO CLASS: 29.2 (PRECISION INSTRUMENTS -- Optical Equipment); 14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds);

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(SANITATION -- Medical)

JOURNAL: Section: P, Section No. 1231, Vol. 15, No. 296, Pg. 49,
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ABSTRACT

PURPOSE: To prevent the propagation of bacteria and to improve wettability as well as to allow long-term use by forming a resin film containing a chitin derivative on at least the recessed surface side of a lens base body.

CONSTITUTION: The resin film 2 containing the chitin derivative is formed on a base body 1 for a concave lens. A base material having high oxygen transmittance is used for the base body 1 and a hydrophilic polymer used for the resin film 2 is preferable and is exemplified by, for example, polymers consisting of 2-hydroxyethyl methacrylate, N-vinyl pyrrolidone, N-dimethyl acrylamide, etc., as raw materials. The chitin derivative is exemplified by N-acetyl chitosan, N-acyl derivative, O-acyl derivative, etc. The long-term wearing is enabled by the base material having the

high oxygen transmittance in this way and the antifungal property and wettability are improved by the chitin derivative

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02967624

CLEANER FOR CONTACT LENS

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PUBLISHED: October 23, 1989 (19891023)
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14.6 (ORGANIC CHEMISTRY -- Liquid Fuel, Oils & Fats)
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January 18, 1990 (19900118)

ABSTRACT

PURPOSE: To provide an exceptionally high effect of removing the mold sticking to a lens by incorporating specific enzyme into the cleaner.

CONSTITUTION: The mold and bacteria stick to the soft contact lens consisting of a synthetic resin and, therefore, at least one enzyme among chitinase, chitosanase or β -1, 3-glucanase is incorporated into the cleaner for said lens. The chitin, chitosan or β -1, 3-glucan is generally contained in the cell walls of the mold generated on the lens and is directly decomposed by any of the above-mentioned enzymes, by which the cell walls are separated and the mold sticking to the lens is directly removed. The effect of removing the mold is, therefore, high.

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